IN THE CLAIMS

Please amend Claims 1-2, 4, 7, 13, 19, 33 and 59 as follows:

1. (Currently amended) A method for summing integrals at a target frequency of a plurality of target frequencies, the method comprising the steps of:

accessing a set of pairs of I and Q correlation values corresponding to a set of data blocks, wherein:

the set of data blocks together make up a sampled data that is associated with a received signal; and

each pair of I and Q correlation values from the set of pairs of I and Q correlation values corresponds to a calculated pair of I and Q correlation integrals that are integrated over one corresponding data block from the set of data blocks at a plurality of frequencies from a set of frequencies;

selecting pairs of I and Q correlation values that correspond to the calculated pairs of I and Q correlation integrals that are calculated using a <u>selected</u> frequency from the set of frequencies that is close to the target frequency to be the selected pairs I and Q correlation values;

weighting the selected pairs of I and Q correlation values according to a

difference between the target frequency and the selected frequency a set of

characteristics to produce a set of weighted pairs of I and Q correlation values; and

summing the weighted pairs of I and Q correlation values-at the target frequency.

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Heid LLP 1762 Technology Drive, Suite 226 San Jose, CA 95110 (408)-392-9520 FAX (408)-392-9262 2. (Currently amended) A method for summing integrals for [a] sampled data of a signal, the method comprising the steps of:

step A: defining R number of sets of frequencies, wherein:

R is an integer value that is greater than unity; and

each set of frequencies from the R number of sets of frequencies is assigned an index that is unique, wherein the index ranges in value from 1 to R;

step B: defining R number of sets of data blocks, wherein:

each set of data blocks from the R number of sets of data blocks make up the sampled data; and

each set of data blocks from the R number of sets of data blocks is assigned the index that is unique, wherein the index ranges in value from 1 to R;

step C: defining R number of pairs of data block-frequency sets, wherein:

each pair of data block-frequency sets from the R number of pairs of data block-frequency sets is assigned the index that is unique, wherein the index ranges in value from 1 to R; and

each pair of data block-frequency sets comprises a set of data blocks from the R number of sets of data blocks and a set of frequencies from the R number of sets of frequencies, wherein: the index of the pair of data block-frequency sets, the index of the set of data blocks in the pair of data block-

frequency sets and the index of the set of frequencies in the pair of data blockfrequency sets have identical values;

step D: selecting a first pair of data block-frequency sets, wherein the index of the first pair of data block-frequency sets is equal to 1;

step E: for each data block in the first pair of data block-frequency sets, calculating a pair of I and Q correlation integrals at each frequency in the first pair of data block-frequency sets to produce a corresponding pair of I and Q correlation values;

step F: selecting a next pair of data block-frequency sets to be a current pair of data block-frequency sets, wherein:

the next pair of data block-frequency sets has not been previously selected; and

the index of the next pair of data block-frequency sets is a next lowest index;

step G: from the current pair of data block-frequency sets, selecting one data block that has not been previously selected from the current pair of data block-frequency sets to be the selected data block and performing the steps of:

step H: identifying a previously selected pair of data block-frequency sets that contains a subset of data blocks to be an identified pair of data block-frequency sets, wherein the subset of data blocks make up the selected data block;

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1762 Technology Drive, Suite 226 San Jose, CA 95110 (408)-392-9520 FAX (408)-392-9762 step I: selecting a frequency that has not been previously selected from the current pair of data block-frequency sets to be a target frequency;

step J: from the identified pair of data block-frequency sets, identifying a frequency that is close in value to the target frequency to be an identified frequency;

step K: selecting pairs of I and Q correlation values that correspond to the subset of data blocks at the identified frequency to be the selected pairs of I and Q correlation values;

step L: for the selected data block, weighting the selected pairs of I and Q correlation values with weights to form the weighted pairs of I and Q values;

step M: summing the weighted pairs of I and Q values over the selected data block to form weighted sums of I and Q values; and

step N: repeating steps I through N until all the frequencies from the current pair of data block-frequency sets have been selected to be the target frequency;

step O: repeating steps G through O until all the data blocks from the current pair of data block-frequency sets have been selected to be the selected data block; and

step P: repeating steps F through O until all the pairs of data block-frequency sets from the R number of pairs of data block-frequency sets have been selected to be the current pair of data block-frequency sets.

3. (Previously presented) The method of claim 2, wherein the step of calculating

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Held LLP 1762 Technology Drive, Suite 226 San Jose, CA 95110 (408)-392-9520 FAX (408)-392-9262 a pair of I and Q correlation integrals is performed coherently using a navigation bit information when the pair of I and Q correlation integrals is associated with a received signal that emanated from a global positioning satellite vehicle, and wherein the navigation bit information is associated with the global positioning satellite vehicle.

4. (Currently amended) A method for summing integrals for [a] sampled data of a signal, the method comprising the steps of:

step A: defining a first set of frequencies and a second set of frequencies;

step B: defining a first set of data blocks and a second set of data blocks, wherein; each set of data blocks make up the sampled data;

step C: defining a first pair of data block-frequency set, wherein: the first pair of data block-frequency set comprises the first set of data blocks and the first set of frequencies;

step D: defining a second pair of data block-frequency set, wherein: the second pair of data block-frequency set comprises the second set of data blocks and the second set of frequencies;

step E: selecting the first pair of data block-frequency set;

step F: for each data block in the first pair of data block-frequency sets, calculating a pair of I and Q correlation integrals at each frequency in the first pair of data block-frequency sets to produce a corresponding pair of I and Q correlation values;

step G: from the second pair of data block-frequency set, selecting one data

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Heid LLP 1762 Technology Drive, Suite 226 San Jose, CA 95110 (408)-392-9520 FAX (408)-392-9262 block that has not been previously selected from the second pair of data blockfrequency sets to be a selected data block and performing the steps of:

step H: from the first pair of data block-frequency set, identifying a subset of data blocks that make up the selected data block;

step I: selecting a frequency that has not been previously selected from the second pair of data block-frequency set to be a target frequency;

step J: from the first pair of data block-frequency set, identifying a frequency that is close in value to the target frequency to be an identified frequency;

step K: selecting pairs of I and Q correlation values that correspond to the subset of data blocks from the first pair of data block-frequency set to be the selected pairs of I and Q correlation values;

step L: for the selected data block, weighting the selected pairs of I and Q correlation values with weights to form weighted pairs of I and Q values;

step M: summing the weighted pairs of I and Q values over the selected data block to form weighted sums of I and Q values; and

step N: repeating steps I through N until all the frequencies from the current pair of data block-frequency sets have been selected to be the target frequency; and

step O: repeating steps G through O until all the data blocks from the second pair of data block-frequency set have been selected to be the selected data block.

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- 5. (Previously presented) The method of claim 4, wherein the step of calculating a pair of I and Q correlation integrals is performed coherently by using a navigation bit information when the pair of I and Q correlation integrals is associated with a received signal that emanated from a global positioning satellite vehicle, and wherein the navigation bit information is associated with the global positioning satellite vehicle.
- 6. (Previously presented) The method of claim 4, wherein the step of calculating a pair of I and Q correlation integrals is performed coherently using a navigation bit information when the pair of I and Q correlation integrals is associated with a received signal that emanated from a global positioning satellite vehicle, and wherein the navigation bit information is associated with the global positioning satellite vehicle.
- 7. (Currently amended) A method for estimating a carrier frequency at a target frequency, the method comprising the steps of:

receiving sampled data associated with a received signal;

dividing a range of frequency of interest into a first set of frequency intervals and a second set of frequency intervals;

dividing the sampled data into a set of data blocks based on the first set of frequency intervals;

for each data block of the set of blocks of data, calculating I and Q correlation integrals associated with the sampled data at one representative frequency from each frequency interval in the first set of frequency intervals;

for every frequency interval of the second set of frequency intervals,
determining a selected frequency in the first set of frequency intervals, wherein the

selected frequency is close in value to the target frequency;

selecting I and Q correlation integrals corresponding to each selected frequency to be a selected pair of I and Q correlation values;

weighting the selected pairs of I and Q correlation values according to a difference between the selected frequency and the target frequency a set of eharacteristics to produce a set of weighted pairs of I and Q correlation values; and

summing the weighted pairs of I and Q correlation values at the target frequency to form summed weighted pairs of I and Q correlation values; and

estimating the carrier frequency from the summed weighted pairs of I and Q correlation values.

- 8. (Original) The method of claim 7, wherein the received signal is from a known signal source.
- 9. (Original) The method of claim 7, wherein for each data block of the set of data blocks, the step of calculating I and Q correlation integrals comprises calculating the I and Q correlation integrals for each hypothesized delay value over a range of hypothesized delay values.
- 10. (Original) The method of claim 9, further comprising the step of selecting a trial frequency value for each frequency interval of the first set of frequency intervals for calculating the I and Q correlation integrals.
- 11. (Original) The method of claim 10, wherein the trial frequency value is a frequency value at a mid-point of each frequency interval.

- 12. (Original) The method of claim 7, wherein the carrier frequency contains at least one frequency shift that is a member of a set of frequency shifts, wherein the set of frequency shifts include a zero frequency shift, a positive frequency shift and a negative frequency shift.
- 13. (Currently amended) The method of claim 7, further comprising wherein the estimating the carrier frequency step comprises the steps of:

for each hypothesized delay value in a range of hypothesized delay values, calculating a magnitude of a vector (I,Q) of correlation sums that were previously summed over all the blocks of data for each frequency interval of the second set of frequency intervals; and

determining an estimate of the carrier frequency by identifying a particular frequency interval from the second set of frequency interval that has a highest magnitude calculation.

- 14. (Original) The method of claim 7, wherein the first set of frequency intervals is a coarse grain set of frequency intervals and the second set of frequency intervals is a fine grain set of frequency intervals.
- 15. (Original) The method of claim 7, wherein a number of intervals in the first set of frequency intervals is proportional to a length of the sampled data and is based on a preselected signal-to-noise ratio.
- 16. (Original) The method of claim 7, wherein a number of intervals in the second set of frequency intervals is proportional to a length of the sampled data.
 - 17. (Original) The method of claim 7, wherein a range of frequency of interest is

based on a pre-selected frequency interval around a frequency of a known signal source from which the received signal emanates.

- 18. (Original) The method of claim 7, wherein calculating the I correlation integral and the Q correlation integral is performed coherently by using navigation bit information when the received signal emanates from a global positioning satellite vehicle, wherein the navigation bit information is associated with the global positioning satellite vehicle.
- 19. (Previously presented) A method for summing I and Q correlation integrals at a target frequency, the method comprising the steps of:

accessing a set of pairs of I and Q correlation values corresponding to a set of data blocks and a set of frequencies, wherein:

the data blocks in the set of data blocks together make up a set of data that is associated with a received signal; and

each pair of I and Q correlation values from the set of pairs of I and Q correlation values corresponds to a calculated pair of I and Q correlation integrals that are calculated over one corresponding data block from the set of data blocks at one corresponding frequency from the set of frequencies;

selecting pairs of I and Q correlation values that correspond to calculated pairs of I and Q correlation integrals that are calculated at a frequency from the set of frequencies that is close to the target frequency to be the selected pairs of I and Q correlation values;

selecting weights for each selected pair of I and Q correlation values, based on the difference of the target frequency from the frequency at which the selected pairs

of I and Q correlation values are calculated, and also based on the position of the data block that corresponds to the selected pair of I and Q correlation values;

weighting the selected pairs of I and Q correlation values according to the selected weights to produce a set of weighted pairs of I and Q correlation values; and summing the weighted pairs of I and Q correlation values.

- 20. (Previously presented) The method of Claim 19 wherein all of the data blocks comprising the set of data blocks have the same length.
- 21. (Previously presented) The method of Claim 20 wherein the length of the data blocks comprising the set of data blocks is chosen to minimize a measure of computational complexity.
- 22. (Previously presented) The method of Claim 19 wherein the set of data that is associated with the received signal comprises sampled data obtained by sampling the received signal.
- 23. (Previously presented) The method of Claim 22 wherein the received signal is a GPS signal.
- 24. (Previously presented) The method of Claim 19 wherein the set of data that is associated with the received signal is an analog signal.
- 25. (Previously presented) The method of Claim 24 wherein the received signal is a GPS signal.
- 26. (Previously presented) The method of Claim 19 wherein the received signal is a GPS signal.

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- 27. (Previously presented) The method of Claim 26 wherein the calculated pair of I and Q correlation integrals are integrated coherently based on navigation bit information associated with a global positioning satellite vehicle.
- 28. (Previously presented) The method of Claim 26 wherein the target frequency is determined on the basis of an intermediate frequency employed by a receiver and a Doppler shift associated with a global positioning satellite vehicle.
- 29. (Previously presented) The method of Claim 19, wherein for each data block in the set of data blocks, the calculated pair of I and Q correlation integrals are calculated for each hypothesized delay value over a range of hypothesized delay values.
- 30. (Previously presented) The method of Claim 29 wherein the received signal is a GPS signal.
- 31. (Previously presented) The method of Claim 19, wherein the number of data blocks is proportional to a length of the received signal.
- 32. (Previously presented) The method of Claim 31 wherein the received signal is a GPS signal.
- 33. (Currently amended) A method for estimating a carrier frequency, the method comprising the steps of:

Step A: Defining R levels, indexed by consecutive integers 1 to R, wherein each level r is associated with a set of data blocks that together make up a set of data that is associated with a received signal;

each data block in the set of data blocks associated with a level r, where

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the set of data blocks associated with the level R comprises a single data block;

each level r is associated with a set of frequencies; and

the set of frequencies associated with the level R comprises a set of candidate frequencies;

Step B: for each data block in the set of data blocks associated with the first level, calculating at each frequency in the set of frequencies associated with the first level, a pair of I and Q integrals to produce corresponding pairs of I and Q correlation values;

Step C: selecting level 2 to be a current level and selecting level 1 to be a previous level;

Step D0: selecting a data block in the set of data blocks associated with the current level that has not been previously selected to be a selected data block;

Step D1: selecting a set of constituent data blocks from the set of data blocks associated with the previous level that make up the selected data block to be a selected set of constituent data blocks;

Step D2: selecting a frequency from the set of frequencies associated with the current level to be a selected frequency;

Step D3: selecting the pairs of I and Q correlation values corresponding to each

data block in the selected set of constituent data blocks and corresponding to a frequency associated with the previous level which is close to the selected frequency, to be the selected pairs of I and Q correlation values;

Step D4: selecting weights for the selected pairs of I and Q correlation values, based on a difference between the <u>a</u> target frequency and the frequency at which the selected pairs of I and Q correlation values are calculated, and also based on the position of the data block that corresponds to the selected pair of I and Q correlation values;

Step D5: weighting the selected pairs of I and Q correlation values according to the selected weights to produce a set of weighted pairs of I and Q correlation values corresponding to the selected data block and the selected frequency;

Step D6: summing the weighted pairs of I and Q correlation values to produce a pair of I and Q correlation values associated with the current level, selected data block, and the selected frequency;

Step D7: repeating steps D2-D6 until every frequency from the set of frequencies associated with the current level has been selected to be the selected frequency; and

Step D8: repeating steps D0-D7 until every data block in the set of data blocks associated with the current level has been selected to be the selected data block;

Step E: If the current level r is not level R, updating the current level to be level r+1, updating the previous level to be level r, and repeating steps D0-E; and

Step F: Estimating the carrier frequency on the basis of the pairs of I and Q

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Heid LLP 1762 Technology Drive, Suite 226 San Jose, CA 95110 (408)-392-9520 FAX (408)-392-9262 correlation values associated with level R and with the frequencies in the set of candidate frequencies.

(Previously presented) The method of Claim 33 wherein Step F comprises the 34. steps of:

Step F1: for each frequency in the set of candidate frequencies, calculating a magnitude associated with the corresponding pair of I and Q correlation values; and

Step F2: estimating a carrier frequency by selecting a frequency in the set of candidate frequencies for which the associated magnitude is largest.

- (Previously presented) The method of Claim 34 wherein the received signal is 35. a GPS signal.
- 36. (Previously presented) The method of Claim 34 wherein the maximum magnitude is compared against a threshold.
- (Previously presented) The method of Claim 36 wherein the received signal is 37. a GPS signal.
- (Previously presented) The method of Claim 33 wherein the set of data that is 38. associated with the received signal comprises sampled data obtained by sampling the received signal.
- (Previously presented) The method of Claim 38 wherein the received signal is 39. a GPS signal.
- (Previously presented) The method of Claim 33 wherein the set of data that is 40. associated with the received signal is an analog signal.

- 41. (Previously presented) The method of Claim 40 wherein the received signal is a GPS signal.
- 42. (Previously presented) The method of Claim 33 wherein the received signal is a GPS signal.
- 43. (Previously presented) The method of Claim 42 wherein the step of calculating the pair of I and Q correlation integrals is performed coherently based on navigation bit information associated with a global positioning satellite vehicle.
- 44. (Previously presented) The method of Claim 42 wherein the set of candidate frequencies is determined on the basis of an intermediate frequency employed by a receiver and a Doppler shift associated with a global positioning satellite vehicle.
- 45. (Previously presented) The method of Claim 33, wherein the steps B-E are repeated for each hypothesized delay value over a range of hypothesized delay values, to produce a pair of I and Q correlation values corresponding to each candidate frequency and each hypothesized delay value.
- 46. (Previously presented) The method of Claim 45 wherein the received signal is a GPS signal.
- 47. (Previously presented) The method of Claim 45, wherein the step of estimating the carrier frequency comprises the steps of:

for each candidate frequency within the set of candidate frequencies and for each hypothesized delay in the range of hypothesized delay values, calculating a magnitude associated with the corresponding pair of I and Q correlation values; and

selecting the hypothesized delay value and candidate frequency that has the highest magnitude calculation.

- 48. (Previously presented) The method of Claim 47 wherein the received signal is a GPS signal.
- 49. (Previously presented) The method of Claim 47 wherein the maximum magnitude is compared against a threshold.
- 50. (Previously presented) The method of Claim 49 wherein the received signal is a GPS signal.
- 51. (Previously presented) The method of Claim 33, wherein the number R of levels equals 2.
- 52. (Previously presented) The method of Claim 51 wherein the received signal is a GPS signal.
- 53. (Previously presented) The method of Claim 33, wherein the number of data blocks iii the set of data blocks associated with each level is proportional to a length of the received signal.
- 54. (Previously presented) The method of Claim 53 wherein the received signal is a GPS signal.
- 55. (Previously presented) The method of Claim 33, wherein every data in the set of data blocks associated with the same level has the same length.
- 56. (Previously presented) The method of Claim 55 wherein the received signal is a GPS signal.

57. (Previously presented) The method of Claim 55, wherein the number of frequencies in the set of frequencies associated with a level is proportional to the length of the data blocks associated with the level.

58. (Previously presented) The method of Claim 57 wherein the received signal is a GPS signal.

59. (Currently amended) A method for estimating a carrier frequency, the method comprising the steps of:

receiving data associated with a received signal;

determining a frequency range of interest;

determining a set of coarse frequencies within the frequency range of interest; determining a set of fine frequencies within the frequency range of interest; dividing the data into a set of data blocks;

for each data block of the set of data blocks, calculating I and Q correlation values associated with the data at each frequency from the set of coarse frequencies;

for every frequency of the set of fine frequencies, determining a selected frequency in the set of coarse frequencies, wherein the selected frequency is close in value to the frequency in the set of fine frequencies;

for each data block of the set of data blocks, selecting I and Q correlation values corresponding to each coarse frequency to be the selected I and Q correlation values for the corresponding data block and coarse frequency;

selecting weights for the selected I and Q correlation values, based on a difference between a <u>the</u> frequency in the set of fine frequencies and the corresponding selected frequency in the set of coarse frequencies, and also based on a position of the data block that corresponds to the selected pair of I and Q correlation values;

weighting the selected pairs of I and Q correlation values according to the selected weights to produce weighted pairs of I and Q correlation values;

computing an approximation to the I and Q correlation integrals over the entire data associated with the received signal, for each frequency in the set of fine frequencies, using the <u>corresponding</u> weighted pairs of I and Q correlation values; and

estimating the carrier frequency from within the set of fine frequencies by using the approximations to the I and Q correlation integrals at the frequencies in the set of fine frequencies.

- 60. (Previously presented) The method of Claim 59 wherein all of the data blocks comprising the set of data blocks have the same length.
- 61. (Previously presented) The method of Claim 59 wherein the length of the data blocks comprising the set of data blocks is chosen to minimize a measure of computational complexity.
- 62. (Previously presented) The method of Claim 59 wherein the set of data that is associated with the received signal comprises sampled data obtained by sampling the received signal.
- 63. (Previously presented) The method of Claim 62 wherein the received signal is a GPS signal.

- 64. (Previously presented) The method of Claim 59 wherein the set of data that is associated with the received signal is an analog signal.
- 65. (Previously presented) The method of Claim 64 wherein the received signal is a GPS signal.
- 66. (Previously presented) The method of Claim 59 wherein the received signal is a GPS signal.
- 67. (Previously presented) The method of Claim 66 wherein calculating I and Q correlation values is performed coherently based on navigation bit information associated with a global positioning satellite vehicle.
- 68. (Previously presented) The method of Claim 66 wherein the set of fine frequencies is determined on the basis of an intermediate frequency employed by the a receiver and a Doppler shift associated with a global positioning satellite vehicle.
- 69. (Previously presented) The method of Claim 66 wherein the set of coarse frequencies is determined on the basis of an intermediate frequency employed by the a receiver and a Doppler shift associated with a global positioning satellite vehicle.
- 70. (Previously presented) The method of Claim 59, wherein the number of data blocks in the set of data blocks is proportional to a length of the received signal.
- 71. (Previously presented) The method of Claim 70 wherein the received signal is a GPS signal.
- 72. (Previously presented) The method of Claim 60, wherein the number of coarse frequencies is proportional to the length of the data blocks.

- 73. (Previously presented) The method of Claim 72 wherein the received signal is a GPS signal.
- 74. (Previously presented) The method of Claim 59, wherein the number of fine frequencies is proportional to the length of the data associated with the received signal.
- 75. (Previously presented) The method of Claim 74 wherein the received signal is a GPS signal.
- 76. (Previously presented) The method of Claim 59, wherein the step of computing the approximation to the I and Q correlation integrals comprises the steps of:
 - Step A: zero-padding the weighted pairs of I and Q correlation values;
 - Step B: applying a Fast Fourier Transform on the zero-padded weighted pairs of I and Q correlation values; and
 - Step C: selecting the values of the Fast Fourier transform at appropriate frequencies to be the approximations to the I and Q correlation integrals at the frequencies in the set of fine frequencies.
- 77. (Previously presented) The method of Claim 76 wherein the received signal is a GPS signal.
- 78. (Previously presented) The method of Claim 76 wherein a number of zeros introduced during Step A is determined by a frequency resolution associated with the set of fine frequencies.
- 79. (Previously presented) The method of Claim 78 wherein the received signal is a GPS signal.

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- 80. (Previously presented) The method of Claim 59, wherein for each data block in the set of data blocks, the step of calculating I and Q correlation values comprises calculating the I and Q correlation values for each hypothesized delay value over a range of hypothesized delay values.
- 81. (Previously presented) The method of Claim 80 wherein the received signal is a GPS signal.
- 82. (Previously presented) The method of Claim 76, wherein the Steps A, B, and C are carried out for each hypothesized delay value over a range of hypothesized delay values.
- 83. (Previously presented) The method of Claim 84 wherein the received signal is a GPS signal.
- 84. (Previously presented) The method of Claim 82, wherein the step of estimating the carrier frequency from within the set of fine frequencies comprises the steps of:

calculating a magnitude of the approximations to the I and Q correlation integrals for each frequency within the set of fine frequencies and for each hypothesized delay; and

selecting the hypothesized delay and carrier frequency that has the highest magnitude calculation.

- 85. (Previously presented) The method of Claim 84 wherein the received signal is a GPS signal.
- 86. (Previously presented) The method of Claim 84 wherein the maximum highest magnitude is compared against a threshold.

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	87.	(Previously presented) The method of Claim 86 wherein the received signal is
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	a GPS signal.	
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